

ABSTRACT

The present invention provides a drive guide apparatus capable of ensuring an increased lifetime by preventing heat generated from a primary side of a linear motor from being transferred to a rail or a moving member of a guide mechanism to which the primary side of the linear motor is connected, thereby preventing variation of rolling resistance or sliding resistance of the guide mechanism.

The drive guide apparatus has a linear motor 10 and a guide mechanism 14 that has a rail 18 and a moving member (moving block 15) provided to be movable relative to the rail 18. A primary side 11 of the linear motor 10 is connected to the rail 18 or the moving member (moving block 15) of the guide mechanism 14. Thermal insulating means (thermal insulators 19 and recess 20) for blocking heat generated from the primary side 11 of the linear motor 10 is provided between the primary side 11 and the rail 18 or the moving member (moving block 15) of the guide mechanism to which the primary side 11 is connected directly or indirectly.